

CONSTRUCTION SPECIFICATION

NV-27. DIVERSIONS AND WATERWAYS

1. SCOPE

The work shall consist of all excavations, shaping, grading, and earthfills required constructing the diversions and waterways as shown on the drawings or as staked in the field.

2. MATERIALS

The earth materials used in constructing the earthfill portions of the diversions and/or waterways shall be suitable materials obtained from required excavations or earth materials obtained from designated borrow areas. Material for earthfill shall be free from frozen material, brush, roots, sod, stones over six (6) inches in diameter or other objectionable material(s).

3. SITE PREPARATION

Foundations for earthfill shall be stripped to remove vegetation and other unsuitable materials or shall be excavated as specified.

Except as otherwise specified, earth foundation surfaces shall be graded to remove surface irregularities and shall be scarified parallel to the axis of the earthfill or otherwise acceptably scored and loosened to a minimum depth of two (2) inches. The moisture content of the loosened material shall be controlled as specified for the earthfill, and the surface materials of the foundation shall be compacted and bonded with the first layer of earthfill as specified for subsequent layers of earthfill.

Earth abutment surfaces shall be free of loose, un-compacted earth in excess of two inches in depth normal to the slope and shall be at such a moisture content that the earthfill can be compacted against them to produce a good bond between the earthfill and the abutments.

4. PLACEMENT

Earthfill material shall not be placed until the required foundation preparation is complete, inspected, and approved for placement. Earthfill shall not be placed upon frozen surfaces. Earthfill shall be placed in horizontal layers not exceeding nine (9) inches in thickness. The moisture content of the earthfill materials shall be sufficient to obtain firm and suitable compaction. Compaction shall be obtained by routing the hauling and spreading equipment over the earthfill material in such a manner that the entire surface of each layer will be traversed by not less than one track tread of the loaded equipment, or equivalent methods approved by the Technician.

5. EXCAVATION

Excavation shall be to the lines and grades shown on the drawings and/or as staked in the field. All surplus and/or unsuitable material will be designated as waste and shall be disposed of at locations shown on the drawings or at a location approved by the Technician.

6. BASIS OF ACCEPTANCE

The acceptability of the land leveling operation shall be determined by inspection to check compliance with all the provisions of this specification, with respect to the plans including the design of the leveling job if designed by the installing Contractor. The installing Contractor's certification, with supporting documentation, will be accepted as a basis of acceptance, in lieu of inspection on jobs constructed and/or finished with laser controlled equipment.